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solve a vector-valued **Stefan problem** with a finite size of **austenite** cell. ... carbon in the early stage, and of the **alloying element** (chromium) ...

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classified among diffusion problems in regions with **mobile** boundaries (**Stefan's problem**).

In the general case it should be solved with allowance for the multicomponent nature of ... tration of carbide- and nitride-forming **elements** in **austenite**, ... of transition metals in iron **alloys**," in: Problems of Metals Sci- ...

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In these papers particle dissolution was viewed as a **Stefan problem** with a sharp interface ... by an  $\alpha$ -diffusive phase in which the **alloying element** diffuses. ... deals with the dissolution of a cementite plate in an **austenite** matrix. ...

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This problem is known as a vector valued **Stefan problem**. ... The resulting discretized equation for one **alloying element** is given by (for ease of ...) and application to the Ferrite/**Austenite** transformation in the Fe-Cr-Ni-system. ...

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For the Fe-Xi-C alloy, Fe-Xi can be regarded as the super-element S. Therefore, the calculation of Fe-C alloys during **austenite** decomposition under non- ... set method for solving **Stefan problems**. J. Comput. Phys. 135, 8, (1997). ...

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... (K) of the **mobile alloy element** is modified in the **austenitic** zone of the ... Ferner wird durch Lösen eines **Stefan-Problems** ermittelt, ob und wie sich ...

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If the **Stefan problem** or the **Stefan problems** are only resolved for a part of the ... K' of the **mobile alloy element** changes in the **austenitic** zone of the ...

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was viewed as a **Stefan problem** with a sharp interface separating the ... phase  $\Omega_{dp}$  in which the **alloy elements** diffuse. The boundary between the particle and the ... that the **austenite-ferrite** transformation occurs much faster than ...

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of carbon in **austenite**. Surface heat treatment of steels and **alloys** creates a zone ... carbon represents the one-dimensional **Stefan problem** with two moving boundaries: ... reduces to the case with one **mobile austenite** ^ excess phase ...

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